



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.07/MP/CEMENT/2014-15



Date: 03.07.2014

TEST REPORT

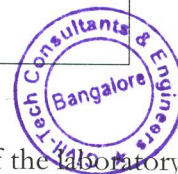
CLIENT	:	Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
AGENCY	:	Mr. M. Prakash, Contractor, Bangalore.
NAME OF THE WORK	:	Improvements to Roads and Drains in Amruthahalli Western side surrounding Roads in Ward No.07 (Byatarayanapura) in Kodigehalli Sub Division, BBMP, Bangalore.
REFERENCE	:	AEE/(KOD.SUB.DIV)/ /2014-15 Dated: 01.07.2014
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	150 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	460 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	26.00 %	-

Note:

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Job No.: CTCE/BBMP/W.No.07/MP/SAND/2014-15



: 03.07.2014

TEST REPORT ON FINE AGGREGATES (SAND) IS 383-1970 (RA- 2002)

Client : Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Agency : Mr. M. Prakash, Contractor, Bangalore.

Name of Work : Improvements to Roads at Ward No.07, Byatarayanapura in Sanjeevanagara, BBMP, Bangalore. Improvements to Roads and Drains in Amruthahalli Western side surrounding Roads in Ward No.07 (Byatarayanapura) in Kodigehalli Sub Division, BBMP, Bangalore.

Reference : AEE/(KOD.SUB.DIV)/ /2014-15 Dated: 01.07.2014

Date of Testing : 03.07.2014

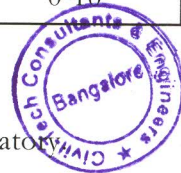
Material : Sand

Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	95	4.75	4.75	95.3	90-100
2.36	227	11.35	16.10	83.9	75-100
1.18	502	25.10	41.20	58.8	55-90
600 Micron	415	20.75	61.95	38.1	35-59
300 Micron	487	24.35	86.30	13.7	8-30
150 Micron	208	10.40	96.70	3.3	0-10

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Job No.: CTCE/BBMP/W.No.07/MP/AGG/2014-15



: 03.07.2014

TEST REPORT ON COARSE AGGREGATES IS 383-1970 (RA- 2002)

Client : Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Agency : Mr. M. Prakash, Contractor, Bangalore.

Name of Work : Improvements to Roads at Ward No.07, Byatarayanapura in Sanjeevanagara, BBMP, Bangalore. Improvements to Roads and Drains in Amruthahalli Western side surrounding Roads in Ward No.07 (Byatarayanapura) in Kodigehalli Sub Division, BBMP, Bangalore.

Reference : AEE/(KOD.SUB.DIV)/ /2014-15 Dated: 01.07.2014

Date of Testing : 03.07.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **26000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	1020	3.92	3.92	96.08	95-100
20	15685	60.33	64.25	35.75	30-70
10	6250	24.04	88.29	11.71	10-35
4.75	2545	9.79	98.08	1.92	0-5

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Job No.: CTCE/BBMP/W.No.07/MP/STEEL/2014-15

03.07.2014

TEST REPORT ON REINFORCEMENT STEEL

Client : **Asst. Executive Engineer**, Kodigehalli Sub Division,
BBMP, Bangalore.

Agency : **Mr. M. Prakash**, Contractor, Bangalore.

Name of the work : Improvements to Roads and Drains in Amruthahalli
Western side surrounding Roads in Ward No.07
(Byatarayanapura) in Kodigehalli Sub Division, BBMP,
Bangalore.

Reference : AEE/(KOD.SUB.DIV)/ /2014-15 Dated:
01.07.2014

Date of Test : 03.07.2014

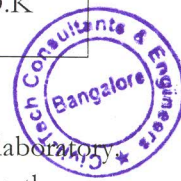
Technical Reference : IS: 1786-2008



Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm ²	Tensile strength (Ultimate stress) N/mm ²	Elongation percent gauge length		
1	10	0.62	513	553	13.20	O.K	O.K

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Job No.: CTCE/BBMP/W.No.07/MP/CUBE/2014-15



13.08.2014

TEST REPORT ON CONCRETE CUBES

Client : **Asst. Executive Engineer**, Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Mr. M. Prakash**, Contractor, Bangalore.

Name of the work : Improvements to Roads and Drains in Amruthahalli Western side surrounding Roads in Ward No.07 (Byatarayanapura) in Kodigehalli Sub Division, BBMP, Bangalore.

Reference : AEE/(KOD.SUB.DIV)/ /2014-15 Dated: 01.07.2014

Sample ID : Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

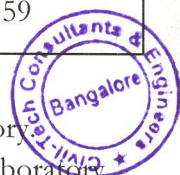
Grade of Concrete : M₂₀

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	16.07.2014	13.08.2014	8.163	493.5	21.93
2	16.07.2014	13.08.2014	8.397	524.9	23.33
3	16.07.2014	13.08.2014	8.254	508.2	22.59

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